

- EN
- FR
- NL
- DE
- IT
- ES
- PT
- CZ
- DK
- TR
- GR

Introduction

Thank you for purchasing this television set.
 This handbook has been designed to help you install and operate your TV Monitor set.
 We would strongly recommend that you read it thoroughly.
 We hope our technology meets entirely with your satisfaction.

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Recycling

The materials used in your set are either reusable or can be recycled.
 To minimise environmental waste, specialist companies collect used appliances and dismantle them after retrieving any materials that can be used again (ask your dealer for further details).

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

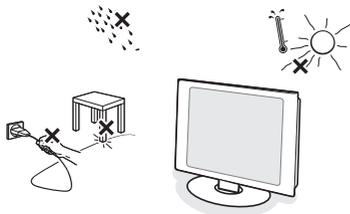
Important

- For ventilation, leave at least 4" to 6" free all around the TV monitor. Do not place the TV monitor on a carpet.
- The equipment shall not be exposed to dripping or splashing.
- The equipment shall not be exposed to rain or moisture and objects filled with liquids, such as vases, shall be placed on the apparatus.
- The apparatus must be connected to a mains socket outlet with a protected earthed connection.
- The appliance coupler is used as the disconnect device of this apparatus, the disconnect device shall remain readily operable.

General

Do not insert the power plug in a wall socket or hang the TV monitor to the wall before all connections are made.

- Place or hang the TV monitor wherever you want, but make sure that air can circulate freely through the ventilation slots.



- Do not install the TV monitor in a confined space such as a book case or a similar unit.
- To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity.
- Avoid heat, direct sunlight and exposure to rain or water.
- The equipment shall not be exposed to dripping or splashing.

Care of the screen

- Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
- And please do not rub with dust clothes with chemical treatment.

- Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen).
- Unplug the TV monitor before cleaning the screen.
- When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks.
- Do not use acetone, toluene and alcohol because they cause chemical damage.
- Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. Their long time contact with the screen causes deformations and colour fading.
- **IMPORTANT:** Always activate a moving screen saver program when you leave your monitor unattended. Always activate a periodic screen refresh application if your LCD monitor will display unchanging static content. Uninterrupted display of still or static images over an extended period may cause "burn in", also known as "after-imaging" or "ghost imaging", on your screen. "Burn-in", "after-imaging", or "ghost imaging" is a well-known phenomenon in LCD panel technology. In most cases, the "burned in" or "after-imaging" or "ghost imaging" will disappear gradually over a period of time after the power has been switched off.

WARNING: Severe "burn-in" or "after-image" or "ghost image" symptoms will not disappear and cannot be repaired. The damage mentioned above is not covered under your warranty.

Electric, Magnetic and Electromagnetic Fields ("EMF")

- Philips Royal Electronics manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
- One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
- Philips is committed to develop, produce and market products that cause no adverse health effects.
- Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Packing checklist

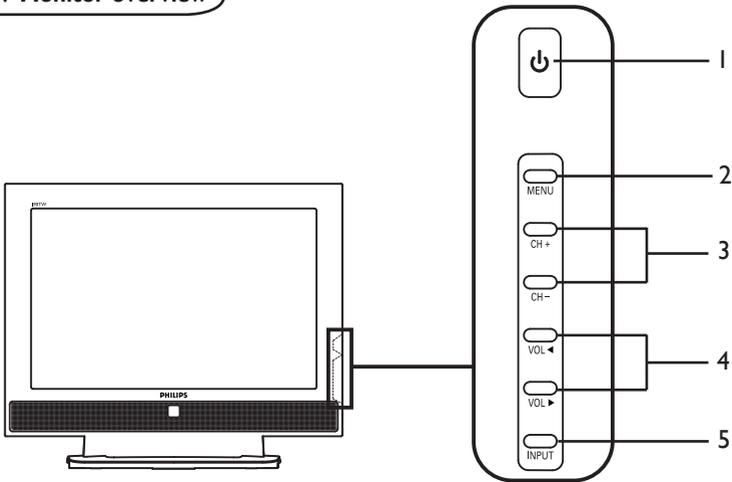
Your TV Monitor package should contain the following accessories, in addition to the accessory box. Please ensure that they are all present. If any of the items is missing, then please contact your retailer.

- Remote control (x1) / AAA batteries (x2)
- Quick Start Guide
- User Manual
- PC Audio Cable
- Power cord (x1)*
- VGA Cable



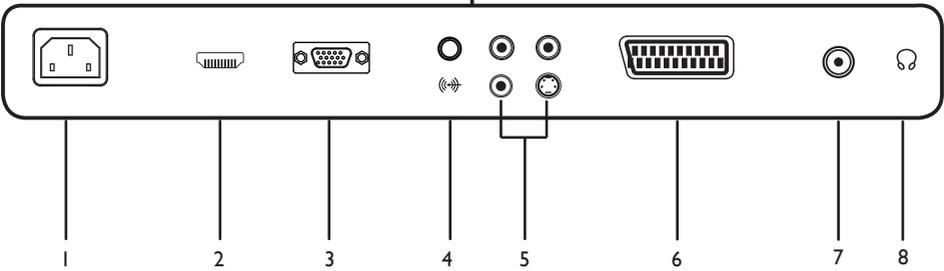
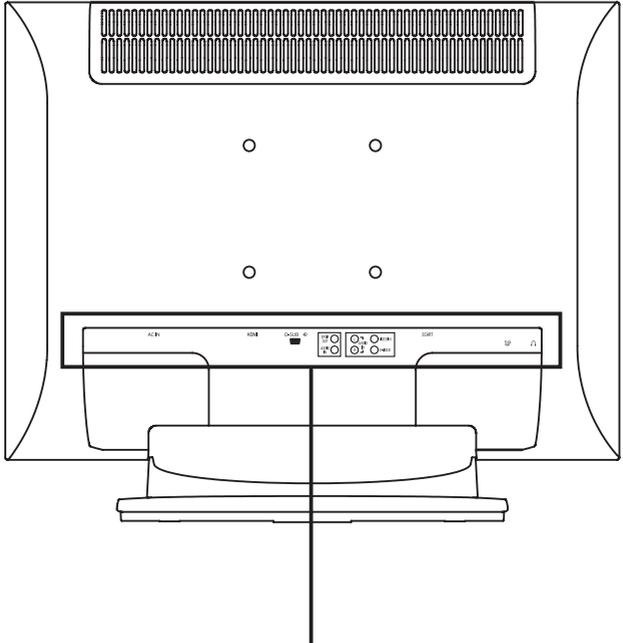
* The power cord supplied varies according to your region.

Your TV Monitor overview



Side of set			
1		Power On/Off	To switch TV monitor ON and OFF
2		Menu key	Turns the OSD menu ON and OFF
3		Channel up	When the OSD is on, functions the same as the Up arrow
		Channel down	When the OSD is on, functions the same as the Down arrow
4		Volume up	When the OSD is on, functions the same as the Right arrow
		Volume down	When the OSD is on, functions the same as the Left arrow
5		Input key	When the OSD is on, press this button to confirm selection

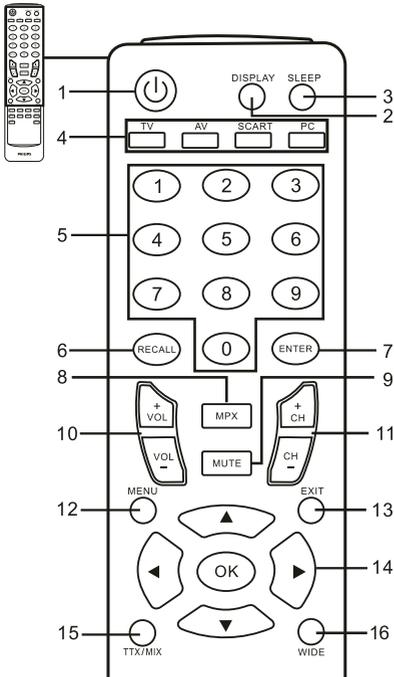
Rear of set			
1	AC IN	2	HDMI
3	D-SUB	4	SPDIF-out + PC Audio-in
5	AV-Audio L/R + CVBS + S-Video*	6	SCART
7	Analog tuner	8	Headphone jack



* For AV: Composite and S-Video input use the same audio ports.

Remote Control Keys

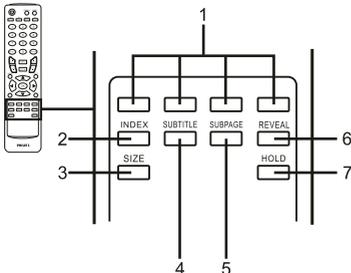
General keys



- 1 **POWER**
Press to turn your TV Monitor on/off.
- 2 **DISPLAY**
Press to display input/channel information (dependent on input/source type).

- 3 **SLEEP**
Press to set a time period after which the TV Monitor will switch itself to standby (15, 30, 45, 60, 90 or 120 minutes).
- 4 **Input buttons (TV/AV/SCART/PC)***
Press to select correct input mode.
- 5 **Number keys.**
- 6 **RECALL**
Press to return to the previous channel.
- 7 **ENTER**
Press to confirm channel number selection.
- 8 **MPX**
Press to select the sound input, displayed in the top right-hand corner (mono, stereo, bilingual).
- 9 **MUTE**
Press to toggle audio on and off.
- 10 **VOL (+/-)**
Press to increase or decrease the volume.
- 11 **CH (up/down)**
Press to sequentially select the TV Monitor channel.
- 12 **MENU**
Press to open or close the Menu.
- 13 **EXIT**
Exit Menu.
- 14 **Directional keys/OK**
VOL (up/down), CH (up/down)
- 15 **TTX/MIX (TELETEXT/MIX)**
Press to switch from TV/AV to Teletext mode.
Press to overlay teletext page on the TV Monitor image.
- 16 **WIDE**
Press to toggle scaling mode between 4:3, 16:10, Full, Panorama and Letterbox 1, 2 modes.

Teletext



- 1 **Colour buttons (R/G/Y/B)**
Operates corresponding button on the teletext page.

- 2 **INDEX**
Press to go to the index page
- 3 **SIZE**
Press once to zoom teletext page to 2X.
Press again to resume.
- 4 **SUBTITLE**
Press to view subtitles on the screen.
- 5 **SUBPAGE**
Press to access the teletext's subpages directly.
- 6 **REVEAL**
Press to reveal hidden teletext information.
- 7 **HOLD**
Press to pause the current teletext page in multi-page viewing mode.

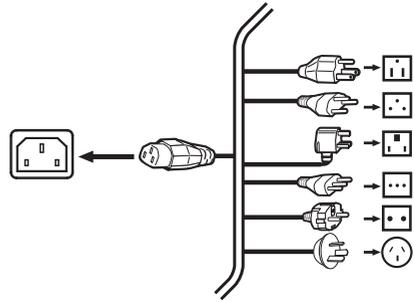
Basic connections

Connecting the power cord

- 1 Connect the AC cord into the AC input on the back of the set.
- 2 Connect the plug to the wall outlet as shown.

Setting up the remote control

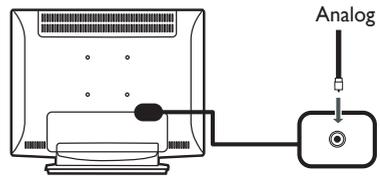
- 1 Open the cover on the back of the remote unit.
- 2 Insert two AAA batteries (supplied) to match the polarity indicated inside the battery compartment.



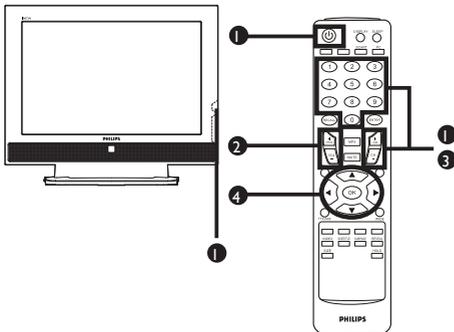
Enjoying analog TV Monitor

Connecting an antenna/cable

Connect the antenna cable to the appropriate antenna terminal on the back of the TV Monitor set as shown below.



Getting started watching your TV Monitor



1 Power

- a. Turn on the power switch beneath the screen.
- b. Press the **power** button, **number** keys or **channel up / down** button on the remote control.

2 Setup Wizard

The first time you switch on the TV Monitor, the Setup Wizard will guide you to complete the language selection and channel scanning.

Press the **OK** key to begin the setup process.

Step 1. Select the setup language you prefer.

Step 2. Please select country.

Step 3. Ensure that your co-axial cables are connected correctly before proceeding.

Step 4. Scan for analog channels.

Step 5. Setup is now complete. You are ready to begin watching TV Monitor.

If you leave the setup process before it is complete, you will be given a choice of options:

1. Resume setup
2. Resume setup wizard at next startup
3. Exit and do not remind me

Select an option and press **OK** to exit.

3 Changing channels

- a. Press 0 - 9 on the remote control to select a channel. The channel changes after 2 seconds. Press **ENTER** to select the channel immediately.
- b. Pressing the channel (**CH**) up / down button on the remote control will also change the channel.

4 Adjusting the volume

Adjust the volume level using the (**VOL**) up/down button on the remote control.



* You can also adjust these settings using the front control panel. Please see "Side of set" on page 3 for details.

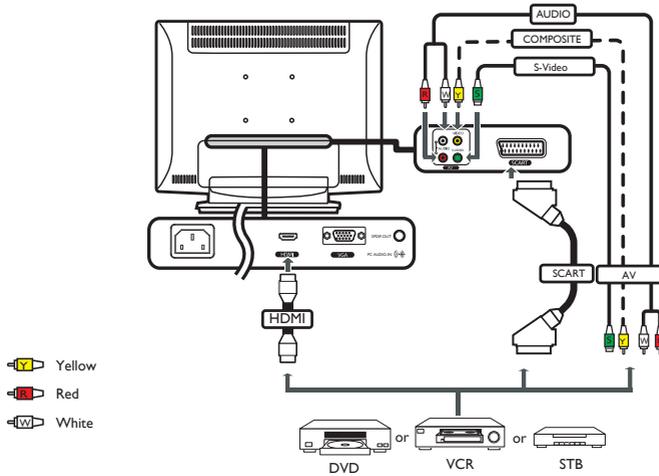
* Setup may vary due to local broadcast differences.

Connecting external audio/video devices

Connecting a DVD, VCR, STB or audio/video equipment

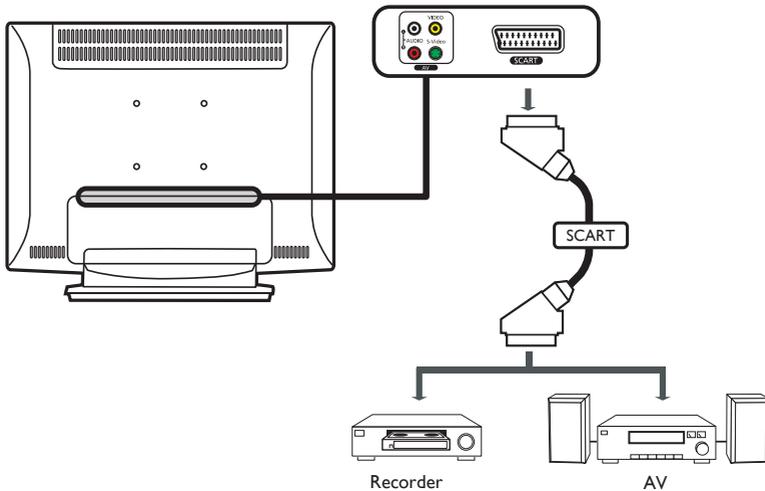
Connect your DVD player, VCR or audio/video equipment using the SCART port located at the rear of your TV Monitor as shown below.

Source-IN



* Philips recommends the following priority for connection types: HDMI -> SCART -> AV

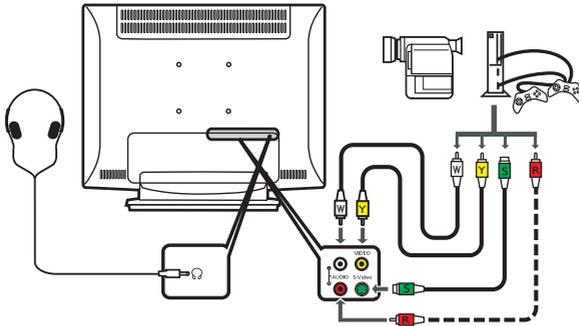
TV-OUT



*SCART-out only works with analog broadcasts.

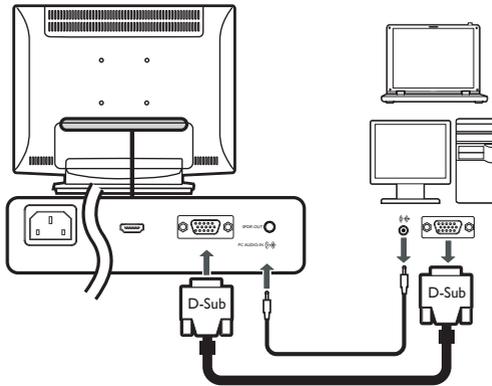
Connecting a camera, camcorder, video game or headphones

Connect your camera, camcorder, video game console or headphones to the video/audio ports on the rear of the TV Monitor set as shown below.



Connecting a PC or notebook computer

To display PC output on your TV Monitor, connect your PC or notebook computer to the TV Monitor as shown below.



* For VGA input, Philips recommends setting your PC's external monitor resolution to 1440 x 900 pixels @ 60 Hz refresh rate.

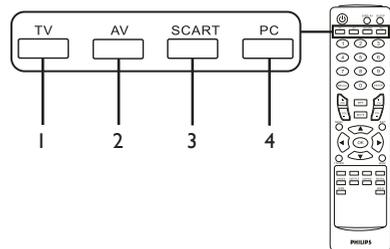
Selecting the input source

Once you have connected your antenna or external equipment to the TV Monitor, you need to select the correct input source.

Press the corresponding button on the remote control to select the correct input source.

Input button guide:

- 1 TV key
Toggle Analog TV (ATV) between input sources.
- 2 AV key
Toggle AV and HDMI between input sources.
- 3 SCART key
Toggle SCART between input sources.
- 4 PC key
Toggle VGA between input sources.

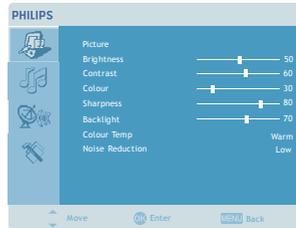
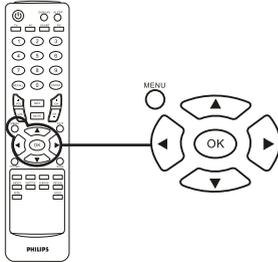


OSD navigation

Many of the advanced settings and adjustments are available through using the OSD (onscreen display) menus, as shown in the example screenshot below.

Basic operations required to navigate these menus (Picture, Audio, Channel management and Settings) are described in this section.

Navigating the OSD with the remote control



There are four main OSD menus. These are: Picture, Audio, Channel management and Settings. Use the following method to navigate these menus.

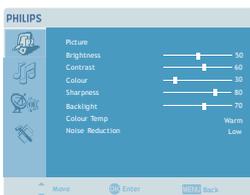
1		Press the MENU button on the remote control or the MENU button on the control panel.
2		Select your desired menu by using the up and down directional keys to switch between the four menus.
3		Use the directional keys to interact with the menu. The up / down directions will scroll through the menu options, while left/right will adjust the different settings (for example, in the Picture menu, settings such as brightness, contrast, etc.). Press MENU to exit.

Adjusting the OSD settings

The OSD can be used for adjusting the settings of your TV Monitor.

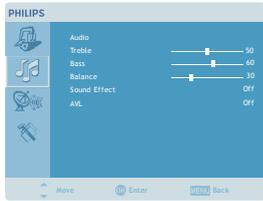
Press the **MENU** a key to open the OSD. You can use the OSD to adjust the picture quality, audio settings, channel settings and general settings. For advanced settings, please refer to following page:

Adjusting the picture quality



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Picture** from the OSD. Then navigate to the picture element you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scales.
- 4 The **Picture** menu can be used to adjust the brightness, contrast, colour, sharpness and other image-related qualities.

Adjusting the audio settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Audio** from the on screen display. Then navigate to the feature you wish to adjust.
- 3 Use the left or right keys to adjust the sliding scales. Press **OK** to save.
- 4 The **Audio** menu can also be used to adjust the treble, bass, balance, sound effect and AVL

Adjusting the channel management



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Channel management** from the OSD.
- 3 Use the directional keys to navigate the menus.
- 4 The **Channel management** menu can be used to set the channel namings, Auto Scan, Manual Scan channel and other related settings.

Adjusting the settings



- 1 Press the **MENU** key to bring up the OSD.
- 2 Using the directional keys, select **Settings** from the OSD. Then navigate to the feature you wish to adjust.
- 3 The **Settings** menu can be used to adjust the menu language and other important settings.

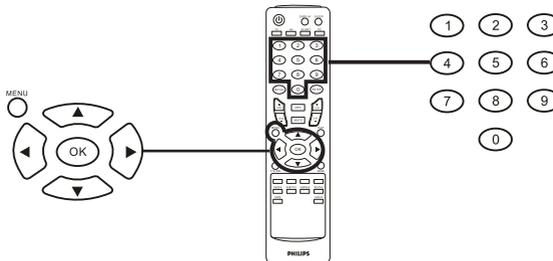


* The options available on the OSD may vary depending on the TV Monitor signal source.

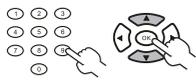
Advanced features

Lock This Channel

Lock This Channel allows you to enter a password and effectively stop anyone without the password from watching TV Monitor Channel.

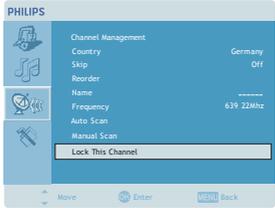
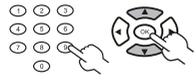


To enable this feature:

Setting a personal PIN			
1		 <p>PHILIPS</p> <p>Settings Menu Language English Sleep OFF Set PIN Wide Mode Full Factory Default</p> <p>Move Enter MENU Back</p>	Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate to the  Settings menu. Then select Set PIN (see note)	
3		Enter a four-digit password. Type it again and press OK to reconfirm.	
4		Press MENU to exit.	

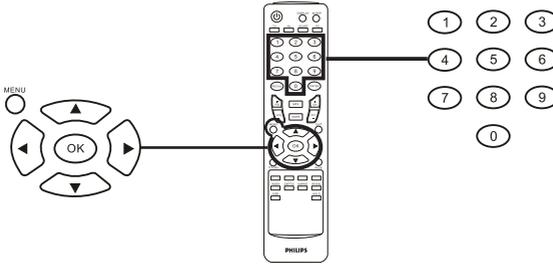


* The default PIN for this TV Monitor is "0000." First enter "0000" when you want to change the PIN. If you forget your PIN, please enter 6163 to reset.

Locking TV Channel			
1		 <p>PHILIPS</p> <p>Channel Management Country Germany Skip Off Reorder Name Frequency 639 22Mhz Auto Scan Manual Scan Lock This Channel</p> <p>Move Enter MENU Back</p>	Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate to the  Channel Management menu. Then select Lock This Channel	
3		Enter your PIN. Type it again and press OK to reconfirm. (see page 10 note)	

Reorder for channels

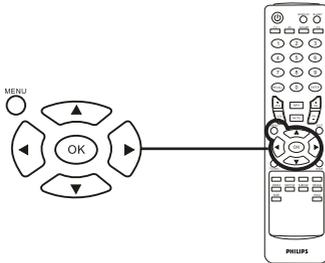
The first time you completed the setup wizard, all available channels were listed. If you need to reorder for new channels, please follow the steps below:

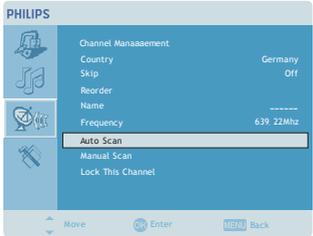


Reordering for channels		
1		Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate and select Channel Management.
3		<div> </div> <p>Highlight Reorder. Then, select the channel you wish to reorder and press OK to confirm. Move to the right channel number and press OK to reconfirm.</p>
4		Select OK and press MENU to exit.

Re-scan for channels

The first time you completed the setup wizard, all available channels were listed. If you need to re-scan for new channels, please follow the steps below:



Scanning for channels		
1		Press the MENU key on the remote control to bring up the OSD.
2		Use the directional keys to navigate and select Channel Management.
3		<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  </div> <div style="width: 35%;"> <p>Highlight Auto Scan. Then, select Start and press OK to begin.</p> </div> </div> <p>or</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  </div> <div style="width: 35%;"> <p>Highlight Manual Scan. Then, select Scan up, Scan down or Scan for updates and press OK to begin.</p> </div> </div>
4		Select OK and press MENU to exit.

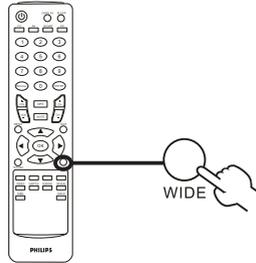
Widescreen display mode

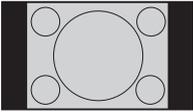
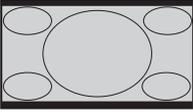
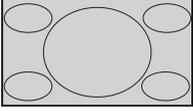
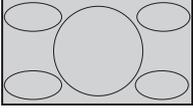
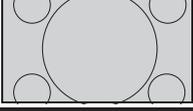
Your Philips TV Monitor has a special widescreen mode that allows you to toggle between 4:3, 16:10, Full, Panorama, and Letterbox 1 and 2 type views.

Press the **WIDE** key on the remote control to toggle the display between the four wide modes.

Wide mode

The Philips TV Monitor contains four widescreen modes, including 4:3, 16:10, Full, Panorama, and Letterbox 1 and 2.



<p style="text-align: center;">4:3</p> 	<p>For 4:3 standard pictures. A side bar appears on each side.</p>
<p style="text-align: center;">16:10</p> 	<p>For 16:10 standard pictures. A side bar appears on each side.</p>
<p style="text-align: center;">Full</p> 	<p>In this mode, the whole picture is stretched toward each side of the screen.</p>
<p style="text-align: center;">Panorama</p> 	<p>In this mode, the picture is progressively stretched toward each side of the screen.</p>
<p style="text-align: center;">Letterbox 1 and 2</p> 	<p>In this mode, the picture is enlarged linearly to fit the screen. The top and bottom portions of the picture may be cut off.</p>

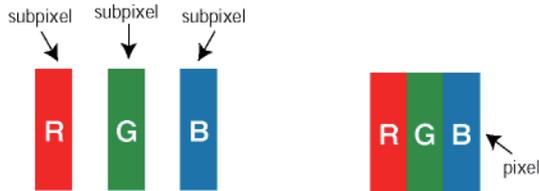
Philips Pixel Defect Policy

Philips' Flat Panel Monitors Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub pixel defects on the TFT LCD panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order to qualify for repair or replacement under warranty, the number of pixel defects on a TFT LCD panel must exceed these acceptable levels. For example, no more than 0.0004% of the sub pixels on a 15" XGA monitor may be defective. Furthermore, Philips sets even higher quality standards for certain types or combinations of pixel defects that are more noticeable than others. This policy is valid worldwide.

Pixels and Sub pixels

A pixel, or picture element, is composed of three sub pixels in the primary colors of red, green and blue. Many pixels together form an image. When all sub pixels of a pixel are lit, the three colored sub pixels together appear as a single white pixel. When all are dark, the three colored sub pixels together appear as a single black pixel. Other combinations of lit and dark sub pixels appear as single pixels of other colors.



Types of Pixel Defects

Pixel and sub pixel defects appear on the screen in different ways. There are two categories of pixel defects and several types of sub pixel defects within each category.

Bright Dot Defects Bright dot defects appear as pixels or sub pixels that are always lit or 'on'. That is, a bright dot is a sub-pixel that stands out on the screen when the monitor displays a dark pattern. There are the types of bright dot defects:



One lit, red, green or blue sub pixel



Two adjacent lit sub pixels:

- Red + Blue = Purple
- Red + Green = Yellow
- Green + Blue = Cyan (Light Blue)

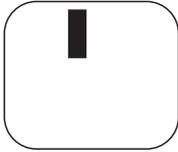


Three adjacent lit sub pixels
(one white pixel)

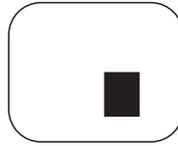


* A red or blue bright dot must be more than 50 percent brighter than neighboring dots while a green bright dot is 30 percent brighter than neighboring dots.

Black Dot Defects Black dot defects appear as pixels or sub pixels that are always dark or 'off'. That is, a dark dot is a sub-pixel that stands out on the screen when the monitor displays a light pattern. These are the types of black dot defects:



One dark sub pixel



Two or three adjacent dark sub pixels

Proximity of Pixel Defects

Because pixel and sub pixels defects of the same type that are near to one another may be more noticeable, Philips also specifies tolerances for the proximity of pixel defects.

Pixel Defect Tolerances

In order to qualify for repair or replacement due to pixel defects during the warranty period, a TFT LCD panel in a Philips flat panel monitor must have pixel or sub pixel defects exceeding the tolerances listed in the following tables.

BRIGHT DOT DEFECTS	ACCEPTABLE LEVEL
MODEL	190TW8
1 lit subpixel	3
2 adjacent lit subpixels	1
3 adjacent lit subpixels (one white pixel)	0
Distance between two bright dot defects*	15 mm
Total bright dot defects of all types	3

BLACK DOT DEFECTS	ACCEPTABLE LEVEL
MODEL	190TW8
1 dark subpixel	5
2 adjacent dark subpixels	2
3 adjacent dark subpixels	0
Distance between two black dot defects*	15 mm
Total black dot defects of all types	5

TOTAL DOT DEFECTS	ACCEPTABLE LEVEL
MODEL	190TW8
Total bright or black dot defects of all types	5



* 1 or 2 adjacent sub pixel defects = 1 dot defect
Your Philips monitor is ISO13406-2 Compliant

Tips

Poor reception	The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see Finetune (p.9) or modify the orientation of the outside aerial. If you are using an indoor aerial, reception may be difficult in certain conditions. You can improve reception by rotating the aerial. If the reception remains poor, you will need to use an external aerial
No picture	Have you connected the aerial socket properly ? Have you chosen the right system? (p.10). Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV Monitor set is moved or turned). Check all connections.
No sound	If on certain channels you receive a picture but no sound, this means that you do not have the correct TV Monitor system. Modify the System setting (p.10). The amplifier connected to the TV Monitor does not deliver any sound? Check that you have not confused the audio output with the audio input.
PC mode don't work ?	Check that you have configured the computer on a compatible display resolution (see p.8).
Remote control	The TV Monitor set does not react to the remote control; the indicator on the set no longer flashes when you use the remote control? Replace the battery.
Standby	If the set receives no signal for 30 mins, it automatically goes into standby mode. To save power, your set is fitted with components that give it a very low power consumption when in standby mode (less than 1 W).
Cleaning the set	Only use a clean, soft and lint-free cloth to clean the screen and the casing of your set. Do not use alcohol-based or solvent-based products.
Still no results?	Disconnect the mains plug of the TV Monitor for 30 seconds then reconnect it. If your TV Monitor set breaks down, never attempt to repair it yourself: contact your dealer after-sales service.

Glossary

VGA (Video Graphics Array): a common standard graphics display system for PCs.

RGB signals : These are the three video signals, Red Green Blue, which make up the picture. Using these signals improves picture quality.

S-VHS Signals: These are 2 separate Y/C video signals from the S-VHS and Hi-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides better picture quality than with standard video (VHS and 8 mm) where the Y/C signals are combined to provide only one video signal.

NICAM sound: Process by which digital sound can be transmitted.

System: Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L L'. The System setting (p.10) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in most countries in Europe, Secam in France, Russia and most African countries. The United States and Japan use a different system called NTSC. The input EXT is used to read NTSC coded recordings.

16:10: Refers to the ratio between the length and height of the screen. Wide screen televisions have a ratio of 16/10, conventional screen TV Monitor sets have a ratio of 4/3.

PC Input Signal Reference Chart

	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Standard	Format
1	640 × 350	31.5	70	VGA	
2	720 × 400	31.47	70	VGA	
3	640 × 480	31.47	60	VGA	
4	640 × 480	35	66.7	MAC	
5	640 × 480	37.861	72	VESA	
6	640 × 480	37.5	75	VESA	
7	640 × 480	43.3	85	VESA	
8	800 × 600	35.156	56	VESA	
9	800 × 600	37.879	60	VESA	
10	800 × 600	48.077	72	VESA	
11	800 × 600	46.875	75	VESA	
12	800 × 600	53.674	85	VESA	
13	832 × 624	49.72	74.5	MAC	
14	1024 × 768	48.36	60	VESA	
15	1024 × 768	56.48	70	VESA	
16	1024 × 768	60.02	75	VESA	
17	1280 × 720	44.772	59.855	VESA	16:10
18	1280 × 720	56.456	74.777	VESA	16:10
19	1360 × 768	47.72	59.799	VESA	16:10
20	1360 × 768	60.288	74.891	VESA	16:10
21	1440 × 900	55.935	59.887	VESA	16:10
22	1440 × 900	70.635	74.984	VESA	16:10



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- * The PC input does not support Sync on Green or Composite Sync.
 - * The PC input does not support interlaced signals.

Product specifications

Model	190TW8
Panel spec	
Resolution (pixels)	1440 x 900
Brightness (typical)	300 cd/m2
Contrast Ratio (tpe.)	1000:1
Display colour	16.7 M
Viewing angle (tpe.)	H: 170° ; V:160°
Response (tpe.)	5 ms
Power supply	
Input	90 V ~ 264 V - AC. (47~63 Hz)
Max. power consumption	<58 W
Power saving	<1 W
Mechanical	
Dimensions (W x H x D mm)	490.4 x 412.5 x 138.9
Weight (Kg)	4.6
Weight (lbs)	10.1
Gross weight (Kg)	6.8
Gross weight (lbs)	15
Wall Mounting	100mm x 100mm
Analog TV system	
TV Colour system	PAL, SECAM
Sound system	B/G/D/K/I/L
Stereo system	NICAM / A2
TV Tuner System	PLL, 45.25 Mhz - 862.25 Mhz
Subtitles	Teletext 1.5
Analog TV-tuner quantity	1
Terminal	
Analog Tuner In	Yes
SCART	CVBS (In/Out), RGB (In), Audio R/L
AV-S-Video	S-Video, Audio R/Lshare with CVBS
AV-CVBS	CVBS, Audio R/L share with S-Video
HDMI	Yes
SPDIF-out	Yes
PC D-sub in	Yes
PC audio-in	Yes
Headphone	Yes
Audio system	
Speaker	5 W + 5 W